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U.S. Patent and Trademark

Approved through 10/31/2002. OMB 0651-0031
U.S. DEPARTMENT OF COMMERCE

PTO/SB/08A (10-01)

Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet 1 of 4

Complete if Known

Application Number	09/772,783
Filing Date	01-30-2001
First Named Inventor	A. Mohan Crawford, et al.
Art Unit	2812
Examiner Name	Not yet assigned
Attorney Docket Number	42390P10886

U.S. PATENT DOCUMENTS

Examiner Initials ¹	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code ² (if known)			
DMA	1	US- 3881244	05-06-1975	Kendall	
		US- 5095357	03-10-1992	Andoh et al.	
		US- 5635892	06-03-1997	Ashby et al.	
		US- 5801100	09-01-1998	Lee et al.	
		US- 5877533	03-02-1999	Arai et al.	
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FOREIGN PATENT DOCUMENTS

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		Country Code ³ - Number ⁴ - Kind Code ⁵ (if known)				
DMA	1	EP 0 725 407 - A1	08-07-1996	IBM Corporation		
		WO 01/39220 - A1	05-31-2001	Intel Corporation		
		JP 07-272932	10-20-1995	Canon Inc.		

Examiner
Signature

Kary M. Nelson

Date
Considered

02-02-05

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¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

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U.S. PATENT & TRADEMARK OFFICE
AUG 09 2004

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		Application Number	09/772,783
		Filing Date	01-30-2001
		First Named Inventor	A. Mohan Crawford, et al.
		Group Art Unit	2812
		Examiner Name	Not yet assigned
		Attorney Docket Number	42390P10886
Sheet	2	of	4

OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS			
Examiner Initials ¹	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T ²
OK		K. SHIRAKAWA, ET AL., "Thin Film Cloth-Structured Inductor For Magnetic Integrated Circuit," IEEE Transactions on Magnetics, September 1990, pp. 2262-2264, Vol. 26, No. 5.	
		M. YAMAGUCHI, ET AL., "Characteristics Of Magnetic Thin-Film Inductors At Large Magnetic Field," IEEE Transactions on Magnetics, November 1995, pp. 4229-4231, Vol. 31, No. 6.	
		E. BRANDON, ET AL., "Microinductors For Spacecraft Power Electronics," Magnetic Materials, Processes, and Devices VI Applications to Storage and Microelectromechanical Systems (MEMS), 2001, pp. 559-567, Vol. 2000-29, The Electrochemical Society, Inc., Pennington, New Jersey.	
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		JOACHIM N. BURGHARTZ, "Integrated Multilayer RF Passives in Silicon Technology," IBM Research Division, Yorktown Heights, NY.	
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		M. BABA, ET AL., "GHz-Drive Magnetic Thin-Film Inductor Using CoNbZr Film," Journal of the Magnetics Society of Japan, 2000.	

Examiner Signature	<i>Kang Nishue</i>	Date Considered	02-02-05
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Sheet	3	of	4

OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS			
Examiner Initials	Cite No. 1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T ²
DNK		Y. KOBAYASHI, ET AL., "New Type Micro Cloth-Inductor And Transformer With Thin Amorphous Wires And Multi-Thin Coils," IEEE Transactions on Magnetics, September 1992, pp. 3012-3014, Vol. 28, No. 5.	
		H. MATSUKI and K. MURAKAMI, "A New Cloth Inductor Using Amorphous Fiber," IEEE Transactions on Magnetics, September 1985, pp. 1738-1740, Vol. MAG-21, No. 5.	
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		M. YAMAGUCHI, ET AL., "Magnetic Thin-Film Inductor For RF Integrated Circuits," Extended Abstracts of the 1999 International Conference on Solid-State Devices and Materials, 1999, pp. 580-281, Tokyo.	
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		A. FESSANT, ET AL., "Influence Of In-Plane Anisotropy And Eddy Currents On The Frequency Spectra Of The Complex Permeability Of Amorphous CoZr Films," IEEE Transactions of Magnetics, January 1993, pp. 82-87, Vol. 29, No. 1.	
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		S. YABUKAMI, ET AL., "Noise Analysis Of A MHz-3 GHz Magnetic Thin Film Permeance Meter," Journal of Applied Physics, April 15, 1999, pp. 5148-5150, Vol. 85, No. 8.	
		JAE PARK and MARK G. ALLEN, "Bar-Type Microinductors and Microtransformers With Electroplated Alloy Cores," Magnetic Devices Research, sponsored by Packaging Research Center.	

Examiner Signature	<i>Kang Nishan</i>	Date Considered	02-02-05
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		Filing Date	01-30-2001
		First Named Inventor	A. Mohan Crawford, et al.
		Group Art Unit	2812
		Examiner Name	Not yet assigned
Sheet 4 of 4	Attorney Docket Number	42390P10886	

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DNW		ERIK BRANDON, "System On A Chip Integrated Passive Components (μ IRS)"	
		MASAHIRO YAMAGUCHI, "Magnetic Films For Planar Inductive Components And Devices," Handbook of Thin Film Devices, edited by M.H. Francombe, 2000, pp. 185-186, Vol. 4: Magnetic Thin Film Devices.	
		S.S. MOHAN, ET AL., "Bandwidth Extension In CMOS With Optimized On-Chip Inductors," IEEE Journal of Solid-State Circuits, March 2000, pp. 346-355, Vol. 35, No. 3.	
		S.S. MOHAN, ET AL., "Modeling And Characterization Of On-Chip Transformers," Center for Integrated Systems, Stanford University, Stanford, CA 94305.	
		M.M. MOJARRADI, ET AL., "Power Management And Distribution For System On A Chip For Space Applications," Jet Propulsion Laboratory, California Institute of Technology, under a contract with the National Aeronautics and Space Administration, Paper No. 284.	
		TERENCE O'DONNELL, ET AL., "Microtransformers and Inductors Using Permalloy Thin Films," Preparation, Properties, and Applications of Thin Ferromagnetic Films, June 2000, pp. 45-52.	
		C. PATRICK YUE and S. SIMON WONG, "On-Chip Spiral Inductors With Patterned Ground Shields For Si-Based RF IC's," IEEE Journal of Solid-State Circuits, May 1998, pp. 743-752, Vol. 33, No. 5.	
		DONALD S. GARDNER, United States Patent Application for "Method and Apparatus for Providing Inductor for Integrated Circuit or Integrated Circuit Package".	

Examiner Signature	<i>[Signature]</i>	Date Considered	02-02-05
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**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Sheet 1 of 2

Complete if Known

Application Number	09/772,783
Filing Date	01-30-2001
First Named Inventor	A. Mohan Crawford, et al.
Art Unit	2823
Examiner Name	Estrada, Michelle
Attorney Docket Number	42390P10886

U.S. PATENT DOCUMENTS

Examiner Initials ⁵	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code ² (if known)			
nn		US- 5047296	09-10-1991	Miltenberger et al.	
nn		US- 5961746	10-05-1999	Nepela	
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		Country Code ³ - Number ⁴ - Kind Code ⁵ (if known)				
nn		EP 0 884 783 - A2	12-16-1998	Lucent Technologies Inc.		
		EP 0 295 028 A1	12-14-1988	Scientific Generics Ltd		
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		JP 61 020311 A	01-29-1986	Nippon Denshin Denwa		
		PCT/ US 02/01555 Search Report	mailed 10-15-2002			

Examiner
Signature*K. M. M. M.*Date
Considered

02-02-05

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**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

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Sheet 2 of 2

Complete if Known

Application Number	09/772,783
Filing Date	01-30-2001
First Named Inventor	A. Mohan Crawford, et al.
Group Art Unit	2823
Examiner Name	Estrada, Michelle
Attorney Docket Number	42390P10886

OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS

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**Examiner
Signature**

Kerry M. Beebe

Date _____

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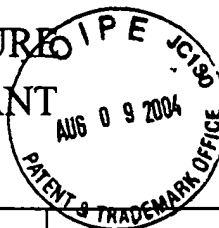
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Substitute for Form 1449/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>			Complete if Known Application Number: 09/772,783 Filing Date: January 30, 2001 First Named Inventor: Ankur Mohan Crawford Art Unit: 2823 Examiner Name: Estrada, Michelle Attorney Docket Number: 42390P10886		
Sheet	1	of	2		



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		Number-Kind Code ² (if known)				
2176		US-	5,446,311	08-29-1995	Ewen et al.	
		US-	5,609,946	03-11-1997	Korman et al.	
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		US-				

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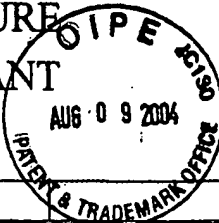
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DNU		US-	4,543,553	09-24-1985	Mandai et al.	
		US-	4,791,719	12-20-1988	Kobayashi et al.	
		US-	5,420,558	05-30-1995	Ito et al.	
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DNU		JP	06124843	A	05-06-1994	Nippon Telegr & Teleph Corp.		

Examiner Signature	<i>Kary Parker</i>	Date Considered	02-02-05
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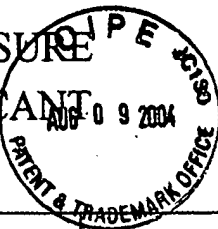
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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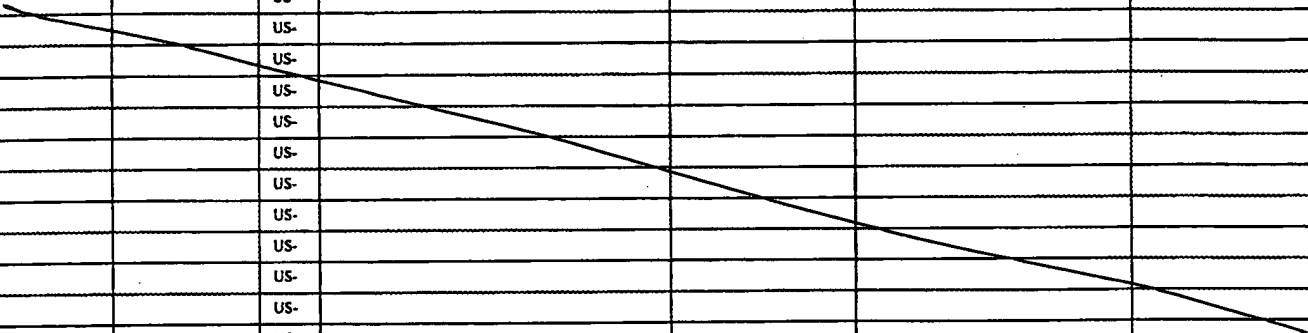


Complete if Known

Application Number	09/772,783
Filing Date	January 30, 2001
First Named Inventor:	Ankur Mohan Crawford
Art Unit	2823
Examiner Name	Estrada, Michelle
Attorney Docket Number	42390P10886

Sheet 1 of 2

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)				
PHH		US-	4,816,784	03-28-1989	Rabjohn	
PHH		US-	5,469,399	11-21-1995	Sato et al.	
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FOREIGN PATENT DOCUMENTS

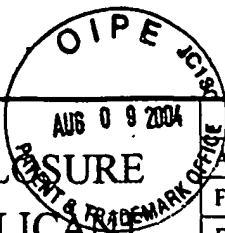
Examiner Initials*	Cite No. ¹	Foreign Patent Document			Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³	Number ⁴	Kind Code ⁵ (if known)				

Examiner Signature	<i>Karyn Parker</i>	Date Considered	02-02-05
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Substitute for Form 1449/PTO			Complete if Known					
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)			Application Number	09/772,783				
			Filing Date	January 30, 2001				
			First Named Inventor:	Ankur Mohan Crawford				
			Art Unit	2823				
			Examiner Name	Estrada, Michelle				
Sheet	2	of 2	Attorney Docket Number	42390P10886				
NON PATENT LITERATURE DOCUMENTS								
Examiner Initials*	Cite No ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T ²					
nmw		ROC (Taiwan) Patent Publication No. 378417 published January 1, 2000.						
		ROC (Taiwan) Patent Publication No. 411481 published November 11, 2000.						
		ROC (Taiwan) Patent Publication No. 386310, published April 1, 2000.						

Examiner Signature	<i>Wong Kuehner</i>	Date Considered	02-02-05
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¹Applicant's unique citation designation number (optional). ²Applicant is to place a check mark here if English Translation is attached.
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Complete if Known

Application Number	10/826,245
Filing Date	4/16/2004
First Named Inventor:	Ankur Mohan Crawford
Art Unit	1773
Examiner Name	N/A
Attorney Docket Number	042390.P10886D

Sheet 1 of 1

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (If known)				
dm		US-	5,753,391	5/19/1998	Stone, et al.	
nwt		US-	6,344,125 B1	2/5/2002	Locke, et al.	
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		Country Code ³	Number ⁴	Kind Code ⁵ (if known)				

Examiner Signature	<i>King Parker</i>	Date Considered	02-02-05
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